Power generation capacity

2283. SHRI SYED AZEEZ PASHA: Will the Minister of POWER be pleased to state:

(a) the total electricity power generation capacity of India as on date and out of total generation capacity, how much is from hydel generation;

(b) whether it is a fact that 40 thousand Mega Watt is to be generated through nuclear deal;

(c) if so, how many years it would take to generate to this energy;

(d) whether the identified untapped hydel potential is one lakh Mega Watt; and

(e) if so, how many, years, it would take to generate hydel energy to the tune of 40 thousand Mega Watt since taking the project in hand?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) The installed generating capacity (utilities) as on 30.11.2008 of the country is approximately 1,46,903 MW. Out of this, the total Hydro Generating Capacity including Small Hydro Projects (included in Renewable Energy Sources as on 30.09.2008) is around 38,808 MW.

(b) and (c) The Integrated Energy Policy of the country envisages reaching a nuclear power capacity of 63,000 MWe by the year 2031-32. This capacity is planned to be achieved through a mix of indigenous nuclear reactors and by setting up atomic parks, 6,000 to 10,000 MWe capacity at a site comprising of about 1000 MWe and above nuclear power reactors based on imports.

(d) and (e) As per the re-assessment of hydroelectric potential carried out by CEA (1978-87), the hydro potential of the country has been assessed about 1,48,700 MW. Out of this upto 30.11.2008, 32,931 MW has been developed and 13,085 MW is under construction leaving 1,02,684 MW as untapped. Hydro projects are site specific. Construction period of a 40 MW capacity hydro project generally ranges from 4 to 6 years from the date of placement of orders for main civil works depending upon features of the project *i.e.* type of project (run-of-river or storage), height of dam, length of water conductor system, type of power house (surface or underground), *etc.*

Power generation situation

2284. DR. K. MALAISAMY: Will the Minister of POWER be pleased to state:

(a) what are the various sources of power generation in the country and the quantum of power generated in each source per year, and its cost per unit, State-wise;

(b) what is the annual demand of power in the country and the quantum of shortage, State-wise; and

(c) how the shortage is being managed?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) The various sources of power generation in the country are thermal, hydro, nuclear and Renewable Energy